

## ABSTRACT

**CODING DEVICE AND COMMUNICATION SYSTEM USING THE SAME**

5        A coding device comprises a coding circuit for converting a digital input into a coded output having a greater number of bits than the input, an interleaving circuit for combining a plurality of words of the coded output and producing therefrom a data block comprising a plurality of the interleaved words, and    a puncturing circuit or repeating circuit for puncturing or repeating bits  
10      from the data block. The puncturing or repeating circuit uses a deleting or repeating pattern to provide data words for transmission during respective frames of a transmission channel. The deleting or repeating pattern is selected depending upon the characteristics of the coding circuit and of the interleaving circuit. The coding device is for use in a cordless communication system.